

PSG Heated Sample Lines



Content

Order codes lines	3
Ex class and bundle type	4
ATEX class	4
Bundle type.....	4
Line configuration.....	5
Number of sample tubes	5
Number of additional tubes	5
Size of sample tube in mm	5
Size of sample tube in inch	5
Size of additional tube in mm	5
Size of additional tube in inch.....	5
Material of sample tube.....	6
Material of additional tube	6
Specification of sample tube	6
Specification of additional tube.....	6
Insulation and jacket material.....	7
Insulation type.....	7
Insulation thickness.....	7
Jacket material.....	8
Heating cables and operating voltage.....	9
Self-regulating heating cables BTV	9
Self-regulating heating cables QTV.....	9
Self-regulating heating cables XTV	9
Self-regulating heating cables KTV	9
Performance heating cables VPL.....	9
Parallel heating cables with constant performance FHT	10
Fixed resistance heater.....	10
Parallel heating cables	10
Operating voltage.....	11
Power output heating cable.....	11
Codes end caps	12
End caps.....	13
Cap position.....	13
Cap material	13
Cap material – shrinking caps	13
Cap dimensions	13
Cap dimensions	13
Packaging.....	13
Connections.....	14
Temperature sensor connection.....	14
Supply cable	14
Tube connection type.....	14

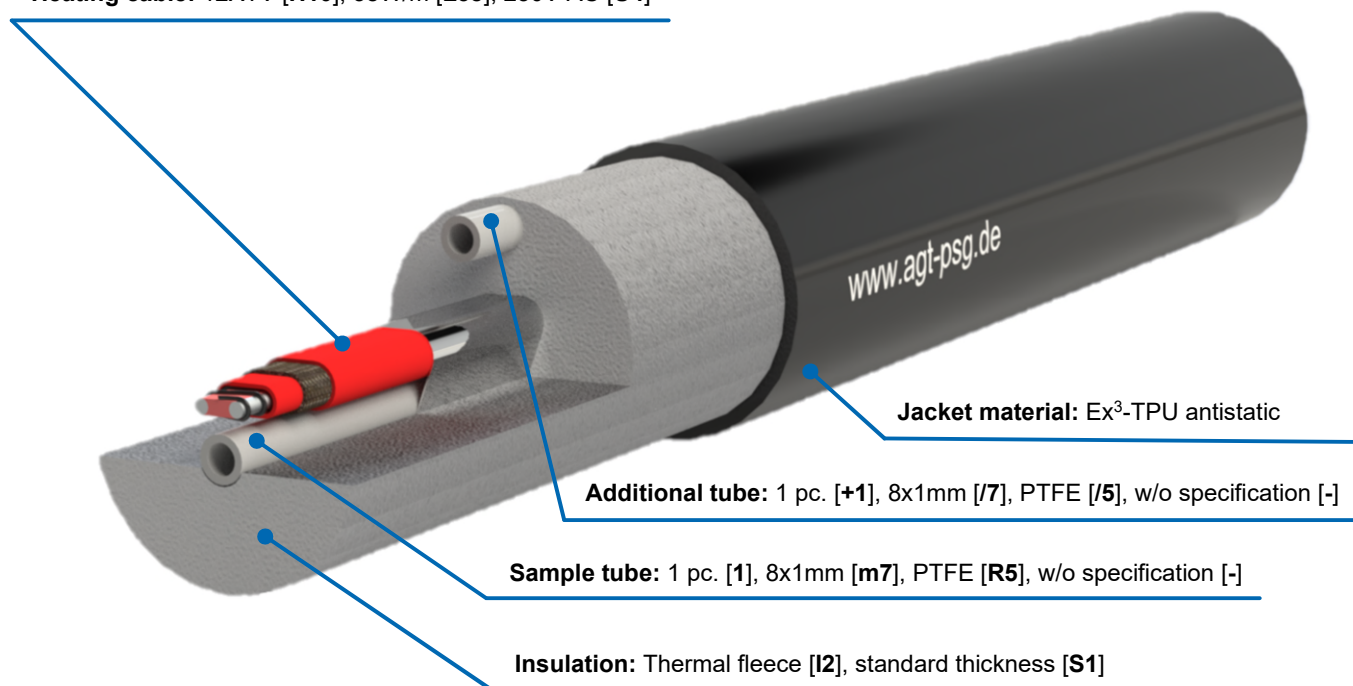
Order codes lines

Matchcode	T3.	A.	1	+1.	M7	/7.	R5	/5.	-	-	I2.	S1.	M27.	U4.	H10	L38
ATEX class → Page 4																
Bundle type → Page 4																
Number of sample tubes → Page 5																
Number of additional tubes → Page 5																
Size of sample tubes → Page 5																
Size of additional tubes → Page 5																
Material of sample tubes → Page 6																
Material of additional tubes → Page 6																
Specification of sample tubes → Page 6																
Specification of additional tubes → Page 6																
Insulation type → Page 7																
Insulation thickness → Page 7																
Jacket material → Page 8																
Operating Voltage → Page 11																
Heating cables → Page 9																
Power → Page 11																

State 05 / 2021 | Subject to change

General: Analysis bundle [A], ATEX class T3 [T3]

Heating cable: 12XTV [H10], 38W/m [L38], 230V AC [U4]



Ex class and bundle type

ATEX class

ATEX class	Code
Ex T1	T1
Ex T2	T2
Ex T3	T3
Ex T4	T4
Ex T5	T5
Ex T6	T6
Non-Ex	-

Bundle type

Bundle type	Code
Analysis bundle	A
Industry bundle	I
Pipe bundle	R

Line configuration

Number of sample tubes

Number of sample tubes	Code
1	1
2	2
...	...
13	13

Number of additional tubes

Number of additional tubes	Code
1	+1
2	+2
...	...
13	+13

Size of sample tube in mm

Size of sample tube in mm	Code
10x1 mm	m1
12x1 mm	m2
3x0,5 mm	m3
6x1 mm rpl.	m4
6x1 mm	m5
8x1 mm rpl.	m6
8x1 mm	m7
14x2 mm	m8
10x1 mm rpl.	m9
12x2 mm	m10
12x1,5 mm	m11
10x2mm	m12
4x1 mm	m13
18x1,5 mm	m14
10x1,5 mm	m15
14x1 mm	m16
16x1 mm	m17
7x1 mm rpl	m18
30x1 mm	m20
16x1,2 mm	m22
25x2,5mm	m23
37x6mm	m25
10x1,2mm	m26

Size of sample tube in inch

Size of sample tube in inch	Code
1/2x0,035"	z1
1/4x0,035"	z2
1/4x0,049"	z3
1/8x0,025"	z4
1/8x0,035"	z5
3/8x0,049"	z6
3/8x0,035"	z7
1/4x0,035"	z8
1/4x0,040"	z9
3/8x0,040"	z10
3/4x0,062"	z11
1/2x0,065"	z12
1/2x0,049"	z13
3/4x0,049"	z14
1"x0,085"	z15
1 1/4x0,125"	z16
1/8x0,020"	z17
1/2x0,04"	z18
1/4x0,04"	z19
1/16x0,04"	z20
1/8"x0,035"	z21
1/4"x0,065"	z22
1/4x0,032"	z23
3/8"x0,0625"	z24

Size of additional tube in mm

Size of additional tube in mm	Code
10x1 mm	/1
12x1 mm	/2
3x0,5 mm	/3
6x1 mm rpl.	/4
6x1 mm	/5
8x1 mm rpl.	/6
8x1 mm	/7
12x2+ 6x1 mm	/8
8x1 mm	/9
2x6x1 mm + 1x4x0,5mm	/11
2x8x1 mm + 2x10x1mm	/12

Size of additional tube in inch

Size of additional tube in inch	Code
1/2x0,035"	/1
1/4x0,035"	/2
1/4x0,049"	/3
1/8x0,025"	/4
1/8x0,035"	/5
3/8x0,049"	/6
3/8x0,035"	/7
3/8x0,04"	/8
1/2x0,065"	/9
1/4x0,0625"	/10
1/4x0,047"	/13

Material of sample tube

Material of sample tube	Code
1.4301	R1
1.4404	R2
1.4571	R3
PFA	R4
PTFE	R5
1.4435	R6
PVDF	R7
317L	R8
316L	R9
PE-LD	R10
Hastelloy	R11
Monel	R12
316L Duplex	R13
CU-DHP	R14
304L	R15
Inconel 625 NACE	R16
316L/ 1.4435	R17
PFA conductive	R18
1.4439	R19
316	R20
Rubber	R21

Specification of sample tube

Specification	Code
electropolish	A1
welded	A2
conductive surface	A3
seamless	A4
Oil/greaseless	A5
SilcoNert2000	A6
sulfurized	A7
VA plated	A8
+ wire mesh	A9
Copper braided as PE	A10
Seamless/Dursan	A11

Material of additional tube

Material of additional tube	Code
1.4301	/1
1.4404	/2
1.4571	/3
PFA	/4
PTFE	/5
1.4435	/6
PVDF	/7
317L	/8
316L	/9
PE-LD	/10
316	/11
CU-DHP	/12
304	/13

Specification of additional tube

Specification	Code
elektropolish	/1
welded	/2
conductive surface	/3
seamless	/4
Oil/greaseless	/5
SilcoNert2000	/6
sulfurized	/7
Va plated	/8
+ wire mesh	/9
Dursan coated	/10

Insulation and jacket material


Insulation type

Insulation type	Code
Glass fleece	I1
Thermal fleece	I2
Silicone foam tube	I3
Glass fibre	I4
Silicone foam tube + Thermal fleece	I6
Silicone foam tube + Glass fleece	I7
Aerogel	I9

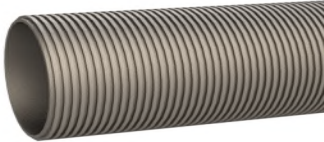
Insulation thickness

Insulation thickness	Code
Standard = 10mm	S1
1,2-fold	S2
1,4- fold	S3
1,4/0,6	S4
1,6- fold	S5
1,8- fold	S6
2,5- fold	S7
2- fold	S8
3- fold	S9
2,2- fold	S10
0,4/Std.	S11
1,6/0,6	S12
Std./06	S13
Std./08	S14
0,2/Std.	S15
1,2/0,8	S16
1,6/06	S17
1,5- fold	S18
0,8- fold	S19
0,6/0,6	S20
1,9- fold	S21
0,4- fold	S22
04/06	S23
06/04	S24


Jacket material

Jacket material	Code	Picture
PVC	M1	
PU	M2	
TPU	M18	
PP	M19	
Ex ² -PVC+PE	M16	
Ex ² -TPU+PE	M17	
Ex ³ -TPU antistatic	M27	
Silicone Foam Tube	M24	


Jacket material

Jacket material	Code	Picture
PA6-corrugated	M3	
PA12-corrugated	M4	
Corrugated metal	M6	
Corrugated metal double	M7	
Corrugated metal + glass fibre	M8	
Corrugated metal + PVC	M9	
Corrugated metal + PU	M10	
Corrugated metal + PA	M11	
PA-corrugated + reduced surface resistance	M15	

Jacket material


Jacket material	Code	Picture
Metal braid stainless steel	M20	
Metal braid galvanised	M13	
Glass fiber mesh	M12	
Glass fiber	M14	

Jacket material


Jacket material	Code	Picture
PA-braiding	M5	
PE-LD	M21	
Tex.glas/Silikonb.	M22	
PA-mesh EXCP/V0	M23	

Heating cables and operating voltage


Self-regulating heating cables BTV

Heating cable	Code	Picture
3BTV (9 W/m at 10 °C)	H1	 <p>Self-regulating heating cables for pipeline antifreeze and process temperature maintenance up to 65 °C</p>
5BTV (16 W/m at 10 °C)	H2	
8BTV (25 W/m at 10 °C)	H3	
10BTV (29 W/m at 10 °C)	H4	


Self-regulating heating cables QTV

Heating cable	Code	Picture
10QTVR (38 W/m at 10 °C)	H5	 <p>Self-regulating heating cables for pipeline antifreeze and process temperature maintenance up to 110 °C</p>
15QTVR (51 W/m at 10 °C)	H6	
20QTVR (64 W/m at 10 °C)	H7	


Self-regulating heating cables XTV

Heating cable	Code	Picture
4XTV (12 W/m at 10 °C)	H8	 <p>Heating cables for pipeline antifreeze and process temperature maintenance up to 121 °C</p>
8XTV (25 W/m at 10 °C)	H9	
12XTV (38 W/m at 10 °C)	H10	
15XTV (47 W/m at 10 °C)	H11	
20XTV (63 W/m at 10 °C)	H12	


Self-regulating heating cables KTV

Heating cable	Code	Picture
5KTV (16 W/m at 10 °C)	H13	 <p>Heating cables maintain temperatures up to 150 °C (operating temperature up to 250 °C max)</p>
8KTV (25 W/m at 10 °C)	H14	
15KTV (47 W/m at 10 °C)	H15	
20KTV (65 W/m at 10 °C)	H16	


Performance heating cables VPL

Heating cable	Code	Picture
5VPL (15 W/m)	H27	 <p>Performance limited cables for process temperature maintenance up to 230 °C</p>
10VPL (30 W/m)	H23	
15VPL (45 W/m)	H18	
20VPL2 (61 W/m)	H19	

Parallel heating cables with constant performance FHT

Heating cable	Code	Picture
10FHT2 (10 W/m)	H32	 <p>Parallel heating cables with constant performance for process temperature maintenance up to 230 °C</p>
20FHT2 (20 W/m)	H33	
30FHT2 (30 W/m)	H26	
40FHT2 (40 W/m)	H29	

Fixed resistance heater

Heating cable	Code	Picture
Fixed resistance	H20	 <p>non shortenable heating cables with temperature maintenance up to 260 °C (temperature control needed)</p>
Fixed resistance + glass fibre	H21	
Fixed resistance + mineral	H22	

Parallel heating cables

Heating cable	Code	Picture
CPD	H17	 <p>Parallel heating cables with constant performance for process temperature maintenance up to 230 °C</p>
PSG CPD Basic	H25	

Operating voltage

Operating voltage	Code
None	U0
24V DC	U1
24V AC	U2
120V AC	U3
230V AC	U4
200/120V 3~	U5
400/230V 3~	U6
115/115V 2~	U7

Power output heating cable

Power output	Code
9 W/m	L9
12 W/m	L12
16 W/m	L16
25 W/m	L25
38 W/m	L38
47 W/m	L47
60 W/m	L60
63 W/m	L63
80 W/m	L80
90 W/m	L90
100 W/m	L00
110 W/m	L01
120 W/m	L120
140 W/m	L140
160 W/m	L160

Codes end caps

Matchcode	LA.	M6.	40x50.	PK.	-	K1.	A1.	-
Cap position → Page 13								
Cap material → Page 13								
Cap dimensions → Page 13								
Packaging → Page 13								
Temperature sensor connection → Page 14								
Supply cable gauge → Page 14								
Supply cable connection type → Page 14								
Tube connection type → Page 14								

Supply Cable: no Temperature sensor [-], 3x1,50 mm² [K1], led out backwards [A1]

Tube: no connection [-]



Cap: Analyser side [LA], Silicone [M6], 40x50 mm [40x50], PSG prefabricated [PK]

End caps

Cap position

Cap position	Analyzer side	Probe side	Midfeed
Code	LA	LP	LM

Cap material

Material	Code
Hard cap	M3
POM	M4
PTFE	M5
Silicone	M6
Ex-PTFE	M7
Metal cap	M8
Aluminium cap	M9

Cap material – shrinking caps

Material	Code
Shrinking cap 1 finger	AK1
Shrinking cap 2 finger	AK2
Shrinking cap 3 finger	AK3
Shrinking cap 4 finger	AK4
Shrinking cap 5 finger	AK5
Shrinking cap 6 finger	AK6
Shrinking cap 7 finger	AK7

Cap dimensions

Dimensions	
40x50	mm
40x75	mm
40x90	mm
40x150	mm
42x80	mm
43x110	mm
45x50	mm
45x70	mm
45x75	mm
45x110	mm
45x150	mm
46x90	mm

Cap dimensions

Dimensions	
50x70	mm
54x50	mm
54x70	mm
54x130	mm
57x50	mm
57x70	mm
60x50	mm
60x70	mm
65x70	mm
70x70	mm
70x150	mm
80x70	mm

Packaging

Packaging	Customer packaged	PSG prefabricated
Code	BK	PK

Connections

Temperature sensor connection

Connection	Temperature sensor	None
Code	TFA	

Supply cable

Cable gauge	Code
w/o supply cable	K0
3x1,50mm ²	K1
3x2,50mm ²	K2
4x1,50mm ²	K3
4x2,50mm ²	K4
5x1,50mm ²	K5
5x2,50mm ²	K6

Supply cable/Heating cable

Connection type	Code
Led out backwards	A1
Led out frontwise	A2
Recessed outlet	A3

Tube connection type

Connection type	Code
Male thread G1/8"	G1/8
Male thread R1/8"	R1/8
Pipe nipple AD = 1/2"	AD1/2
Pipe nipple AD = 1/4"	AD1/4
Pipe nipple AD = 3/8"	AD3/8

Tube connection type

Connection type	Code
Pipe nipple AD = 6,0mm	AD6
Pipe nipple AD = 8,0mm	AD8
Pipe nipple AD = 10,0mm	AD10
Pipe nipple AD = 12,0mm	AD12
Quick Connector	QC